

目 次

• 光学器件 •

- 基于 CPC 的太阳模拟器聚光性能分析(英文) 王昊, 付跃刚, 张国玉, 等 1223001
微通道板测试用铯离子源离化效率研究 王叶萍, 钱芸生, 郎怡政, 等 1223002
基于电子追迹算法的微光像增强器分辨率研究 邱亚峰, 严武凌, 华桑瞰 1223003
自分裂 GaN 基垂直结构 LED 研究 苏旭良, 王灿, 应磊莹, 等 1223004

• 光纤光学与光通信 •

- 基于频移干涉数字混频法的 FBG 解调方法 魏聪, 周次明, 陈希, 等 1206001
基于细直径极大倾角光纤光栅的悬臂梁低频振动传感器性能研究 邹雪, 邓欧, 罗彬彬, 等 1206002
基于时域微分周期比的脉搏波信号特征识别 范保存, 王彦, 黄晨晨, 等 1206003

• 激光与激光光学 •

- 基于室内结构特征的二维激光雷达与相机标定方法(英文) 张磊, 徐孝彬, 何佳, 等 1214001
齿轮材料 20CrMnTi 的飞秒激光烧蚀特征 明兴祖, 金磊, 肖勇波, 等 1214002

• 光谱学 •

- 冲击噪声对多普勒差分干涉仪相位反演精度影响分析及校正方法 于婷婷, 冯玉涛, 傅顿, 等 1230001
用于 TDLAS 气体检测系统的高精度温控设计 刘旭, 孙鹏帅, 杨曦, 等 1230002
光谱信号区域基线拟合算法 姚城斌, 贾云伟, 吴江波, 等 1230003

• 仪器, 测量, 度量学 •

- 基于远场焦斑测量数学模型改进的 CNN 去噪方法研究 王拯洲, 王力, 谭萌, 等 1212001
天基光学成像系统探测效能评价方法(英文) 鲁啸天, 李峰, 肖变, 等 1212002

• 成像系统 •

- 空间调制型全偏振成像系统解调算法优化 王孙晨, 张磊, 薛模根, 等 1211001
基于双向反射分布函数的非视域成像系统模型的仿真研究 徐伟豪, 苏秀琴, 汪书潮, 等 1211002
叠层成像波长不稳定性校正方法研究 窦健泰, 胡友友, 杨忠明 1211003

• 散射 •

- 基于有限邻域辐射传输的三维云层多次散射近似模型 张寅, 马俊, 闫钧华, 等 1229001

基于人工蜂群算法的多峰颗粒粒度分布反演 单良, 李浩然, 洪波, 等 1229002
空间目标热控涂层材料偏振反射特性研究 王凯, 刘宏, 张修兴 1229003

• 薄膜 •

聚碳酸酯高强度超低反射率薄膜的研制 刘冬梅, 魏博洋, 付秀华, 等 1231001

• 图像处理 •

基于多散斑图组合-调制的鬼成像优化方法 王肖霞, 陶勇, 杨风暴, 等 1210001

(本期责编:郭娟)

Contents

• Optical Devices •

- Concentration Performance Analysis of Solar Simulator Based on Compound Parabolic Concentrator WANG Hao, FU Yue-gang, ZHANG Guo-yu, et al 1223001
Study on Ionization Efficiency of Cesium Ion Source for Microchannel Plate Test WANG Ye-ping, QIAN Yun-sheng, LANG Yi-zheng, et al 1223002
Resolution Research of Low-light-level Image Intensifier Based on Electronic Trajectory Tracking QIU Ya-feng, YAN Wu-ling, HUA Sang-tun 1223003
Research on Auto-split GaN-based Vertical Structure LED SU Xu-liang, WANG Can, YING Lei-ying, et al 1223004

• Fiber Optics and Optical Communications •

- FBG Demodulation Method Based on Frequency Shift Interference Digital Mixing Algorithm WEI Cong, ZHOU Ci-ming, CHEN Xi, et al 1206001
Research on the Performance of Cantilever Low Frequency Vibration Sensor Based on Thin-diameter Excessively Tilted Fiber Grating ZOU Xue, DENG Ou, LUO Bin-bin, et al 1206002
Pulse Wave Signal Feature Recognition Based on Time-domain Differential Period Ratio FAN Bao-cun, WANG Yan, HUANG Chen-chen, et al 1206003

• Lasers and Laser Optics •

- Calibration Method of 2D LIDAR and Camera Based on Indoor Structural Features ZHANG Lei, XU Xiao-bin, HE Jia, et al 1214001
Femtosecond Laser Ablation Characteristics of Gear Material 20CrMnTi MING Xing-zu, JIN Lei, XIAO Yong-bo, et al 1214002

• Spectroscopy •

- Analysis of Influence of Spike on Phase Retrieval Accuracy of Doppler Asymmetric Spatial Heterodyne Spectrometer and Correction Method YU Ting-ting, FENG Yu-tao, FU Di, et al 1230001
High Precision Temperature Control Design for TDLAS Gas Detection System LIU Xu, SUN Peng-shuai, YANG Xi, et al 1230002
Baseline Fitting Algorithm of Spectral Signal Region YAO Cheng-bin, JIA Yun-wei, WU Jiang-bo, et al 1230003

• Instrumentation, Measurement and Metrology •

- Research on CNN Denoising Algorithm Based on an Improved Mathematical Model for the Measurement of Far-field Focal Spot WANG Zheng-zhou, WANG Li, TAN Meng, et al 1212001
An Effectiveness Evaluation Method for Space-based Optical Imaging Systems LU Xiao-tian, LI Feng, XIAO Bian, et al 1212002

• Imaging Systems •

- Optimization with Demodulation Algorithm for Spatially Modulated Full Polarization Imaging System WANG Sun-chen, ZHANG Lei, XUE Mo-gen, et al 1211001
Simulation Research of Non-line-of-sight Imaging System Based on Bidirectional Reflectance Distribution Function XU Wei-hao, SU Xiu-qin, WANG Shu-chao, et al 1211002
Correction Method for the Wavelength Instability of Ptychography DOU Jian-tai, HU You-you, YANG Zhong-ming 1211003

• Scattering •

- Approximate Model of Three-dimensional Clouds Multiple Scattering Based on Finitely Adjacent-cloud Radiative Transfer ZHANG Yin, MA Jun, YAN Jun-hua, et al 1229001
Inversion of Multimodal Particle Size Distribution Based on the Artificial Bee Colony Algorithm SHAN Liang, LI Hao-ran, HONG Bo, et al 1229002
Study on Polarized Reflection Characteristics of Space Object Thermal Control Coatings WANG Kai, LIU Hong, ZHANG Xiu-xing 1229003

• Thin Films •

- Development of Polycarbonate High Strength Ultra-low Reflectivity Film LIU Dong-mei, WEI Bo-yang, FU Xiu-hua, et al 1231001

• Image Processing •

- An Optimization Method of Ghost Imaging Based on Multiple Speckle Patterns Combination-modulation WANG Xiao-xia, TAO Yong, YANG Feng-bao, et al 1210001